

## ABSTRACT OF THE DISCLOSURE

A system and method for automating the generation of manufacturing frame designs are provided. A frame design processing server includes a plurality of modules for generating frame designs. The frame design processing server obtains a specification  
5 of components for a vehicle and processes the specification according frame design rules and three-dimensional representations of data. The frame design processing server configures positions for the each of the specified components based upon processing data in the frame design rules and based upon conducting interference checks. The resulting configuration can be exported as manufacturing data and/or three-dimensional  
10 representations of the frame design.